Creating a New Query (Cohort Mode)

Upon logging in, select **Create a new blank query** to proceed (or **Select an existing query** to use a previously created query).



From the filters listed in the left panel, select a filter, for example, **Demographics**, to begin defining criteria for your query.

M DATADIRECT	
Cohort Discovery Tool	Logged in as Logout
	New Query Open Query
Upload List	Currently Selected Query
Lemographics	Lupus Cohort
Encounters	cohort query mode 🗈 🖉 🧲 Cohort Query Mo
Diagnoses	Cohort Discovery Results
Procedures	Initial Count: 3,723,759 patients
	84,050,893 encounters
Outpatient Medications	Final Count: 3,723,759 patients 84,050,893 encounters
Medication Administration	Run At-a-Glance Get Your Data
Laboratory	
Waveform	
biorepository	

Demographics are *patient-level* characteristics available from the administrative registration systems (**not** encounter-level data, in other words, they do not change from one encounter to another).

Select the checkboxes beside the characteristics to *include* in your query. De-select items you do **not** wish to include. For example, to find only Female patients, de-select Male and Unknown under Gender. Click **Add** to *add* these criteria to your query.

Cohort Discovery Tool	Demographics		
Upload List		administrative registration systems. The d hese characteristics are at the Patient leve	
Demographics	Gender	🗹 Female 📃 Male 📃 Unknown	
Encounters			
Diagnoses	Marital Status	🖉 Married 🕑 Unmarried 🕑 Unk	nown
Procedures	Race	🗷 African American	
		🖉 American Indian or Alaska Native	2
Outpatient Medications		🗹 Asian 🗹 Caucasian	
Medication Administration		 Ispanic 	
		Middle Eastern	
Laboratory		🗹 Multi Racial	
		Native Hawaiian and Other Pacification	ic Islander
Waveform		Patient Refused Other	
biorepository		Cther Unknown	
<u>M</u>	Current Vital Status:		
		✓ Alive / Unknown	
	* Ann aiteair ann b	ad an Ensemble tob	Click "Add" EACH tim
	* Age criteria can be adjus	ed on Encounters tab.	you add criteria to sa

Cohort Results

As DataDirect retrieves data to match the selected criteria, the right panel of the screen displays aggregate counts. Your query is also saved to your individual profile in DataDirect.

Cohort Discovery Tool	Changes SavedNext Steps	Logged in a Logout New Query Open Query
Upload List	Your changes have been saved. Processing of your query will begin in the background. As your results come in: you will see the them appear on the right side of the screen.	Currently Selected Query
Demographics	You may continue to make changes to your query even while it is processing.	Lupus Cobort
Encounters	If you have no more changes to make, then you can leave your query to process in the background. You may go work on a different query (choose "create a new	cohort query mode 12 2
👌 Diagnoses	query" from the right side of the screen), or even close your browser completely. You can return to this query at any time to see the progress or get the final results once it is complete.	Cohort Discovery Results
16 Proceedures		Initial Counter 3,723,760 patients 84,050,970 encounters
Outpatient Medications		Demographics
Medication Administration		marital status: Married or Unmarried or Unknown
Laboratory		race: African American or American Indian or Alaska Native or Asian or Caucasian or
Waveform		Hispanic ar Middle Eastern or Multi Rocial or Native Howalian and Other Pacific Islander
Biorepository		or Patient Refused or Other or Unknown vital status: Alive / Unknown
		1,090,343 patients
		Final Count: 1,050,343 patients Run At-a-Glance Get Your Data
		Runkisolaice Gentus Data

Results include 1) *initial patient and encounter counts,* 2) *saved criteria*, and 3) *final aggregate count of patient data matching your query*. As you build your query, check the right panel to verify that your criteria have been added.





Tip: Begin typing to filter the selection criteria. For example, in the Inpatient Service Location field, type 5D to narrow your search. DataDirect includes aliases for locations, e.g., 8D5 or SICU.

Click or highlight the item to select it for a field.

real time admission and visit of change from one encounter to encounter. Click here for more	encounter location data is being reviewed to create an easy-to-use
Admit date / visit date	01/01/2000 to 03/30/2015
Age at the Date of Service	0 year(s) ▼ to 150 year(s) ▼
Patient Class	 ✓ Emergency ✓ Inpatient ✓ Outpatient ✓ Preadmit ✓ Other
Inpatient Service Location	5d 5D 24858 times 80NS, 80S, SICU, 80, 8081
Primary Provider (search by name, pager #)	No provider has been selected

Review the updated result panel on the right side of the screen each time you click "**Add**" to note the additional criteria have been *saved* to your query. In this example, both Demographics and Encounter criteria have been added to the query, and an aggregate count has been generated:



Select **Diagnosis**, and begin typing the desired diagnosis name (or associated ICD-9 code) into the Diagnosis Code field. Highlight the code you desire, then click **Add Selected**.

Upload List	Inpatient, ED, and outpatient IC Click here for more details	D9 diagnoses derived from the billing process. ICD9 diagnoses data	a are available from 2006 to th	e first of the previous month.
Semographics	* Please note that problem sum	nmary list diagnoses listed in MiChart are not currently available, but	t will be available in mid 2015	
Encounters	Billing source	Facility •		
A Diagnoses	Dagnosis code or description	lupus T		
Procedures		0 item(s) selected	Add Selected	
Outpatient Medications	Present on admission 💿	Top Result		Top Results –
	Diagnosis Type	Systemic lupus erythematosus [710.0]	141382 times	
Medication Administration		Lupus erythematosus [695.4]	8083 times	most frequent
Laboratory		Discoid lupus erythematosus of eyelid [373.34]	35 times	
		Discharge Diagnoses		
Waveform	* Show ICD0 kineseku	Discoid lupus erythematosus of eyelid [373.34]	35 times	
👌 Biorepository	* Show ICD9 hierarchy	Lupus erythematosus [695.4]	8083 times	Alphabetic listin
	Inclusion/Exclusion	Systemic lupus erythematosus [710.0]	141382 times	
	Include selected diagnoses			
	No diagnoses have been sele	cted		
	Cancel Add			

As you select a diagnosis code, the 'parent' ICD-9 code and its associated 'child' ICD-9 codes will be displayed and automatically **included**. De-select (click the red X) any individual code you wish to remove from the suggested list. "Inclusion" is the default selection.

* Show ICD9 hierarchy Inclusion/Exclusion	
Include selected diagnoses Systemic lupus erythematosus [710.0] Systemic sclerosis [710.1] Sicca syndrome [710.2]	
Dermatomyositis [710.3] Polymyositis [710.4] Eosinophilia myalgia syndrome [710.5] Other specified diffuse diseases of connective tissue [710.8] Unspecified diffuse connective tissue disease [710.9]	
Cancel Add	tion to save it to your query.



k here for more details	t ICD9 diagnoses derived from the billing process. ICD9 dia summary list diagnoses listed in MiChart are not currently a	-	previous month.
ing source	[Search all sources] +		
agnosis code	diabetes		
description	o item(s) selected	Add Selected	
esent on admission 💿	Top Result		
agnosis Type	Diabetes mellitus without mention of comp unspecified type, not duted as uncontrolled [
	 Diabetes mellitus without mention of comp [juvenile type], not stated as uncontrolled [25 Diabetes mellitus without mention of comp unspecified type, uncontrolled [250.02] 	0.01]	
now ICD9 hierarchy Inclusion/Exclusion	Diabetes with neurological manifestations, unspecified type, not stated as uncontrolled [250.60]	
Include selected diagnos		91 more	
	tosu: Discharge Diagnoses	4253 times	8
ancel Add	 Diabetes insipidus [253.5] Diabetes mellitus [250] 	1 times	
	 Diabetes mellitus complicating pregnancy, 		
	puerperium [648.0]		
	Diabetes mellitus of mother, complicating childbirth, or the puerperium, antepartum cor [648.03]		
move any "chile	d" ICD9 codes that you do not wish t	91 more to keep (by clicking the red X for	each).
Inclusion/Exclusio	n		
Include selected dia	gnoses		
Diabetes mellitus wi Diabetes mellitus Diabetes mellitus	rythematosus [710.0] thout mention of complication, type II or unspo- s without mention of complication, type I [juvenile s without mention of complication, type II or unspo- s without mention of complication, type I [juvenile	type], not stated as uncontrolled [250.01] crified type, uncontrolled [250.02]	
ancel Update			
ck Update (botl	n conditions will be listed, as below)		
Inclusion/Exclusion			
Include selected dia	gnoses		
	ervthematosus [710.0]		
Systemic lupus e	thout mention of complication, type II or uns	14 1	50.001 🔕

DataDirect will display the codes within the same 'criteria' box on the right side of the screen, indicating that the retrieved results include patients with code 710.0 (Lupus) **OR** patients with code 250.0 (Diabetes).

Diagnoses	
diagnosis type: admit or primary or secondary or comorbidity/complication or other include codes: 710.0 or 250.00	Includes diagnoses codes: 710 (Lupus) OR
18,342 patients 168,761 encounters	250 (Diabetes)



Build an additional Data Source (Diagnosis) by *returning* to the main filter list. Click **Diagnoses**, enter Diabetes into the Diagnosis code field, and click **Add** Selected to create a *new*, *separate criteria*.



The additional required criteria appears as a *separate* criteria box in the right hand panel, and the narrowed query results show a far more limited population of patients – only those patients who possess BOTH of the listed diagnosis codes (710 **and** 250).



Separate Diagnoses Criteria filters represent "AND" logic – patients who have Lupus AND Diabetes Each of the displayed criteria boxes in the right-hand panel represents an "AND" statement – in other words, all retrieved patients must possess ALL of these criteria:



Continue to build and refine your query using Data Sources on the left-hand panel. Refer to the instructions *inside* each filter panel to determine the source and details for the information available.

Cohort Discovery Tool Upload List	Laboratory Laboratory data inclu current day. Click he	ude both ordered and results. There is a live feed of re for more details	f available lab data dating from 2000 to
Demographics	UM Pathology	adna	
Encounters	Test Name	0 item(s) selected	Add Selected
A Diagnoses	Date of Observation	Exact Match	
// Procedures	\sim	ANTI-dsDNA ANTIBODY [Order: ADNA]	72,295 times
Outpatient Medications	Inclusion/Exclu Include selected	ANTI-dsDNA ANTIBODY [Result: ADNA]	71,059 times
Medication Administration	No labs have been	ANTI-dsDNA ANTIBODY [Order: ADNA]	
Laboratory	Cancel Add	Laboratory Results	laboratory results in alphabetical order
Waveform		ANTI-dsDNA ANTIBODY [Result: ADNA]	71,058 times
Biorepository			

If you wish to retrieve data related to Laboratory collections, you may select details for *Ordered* and well as *Resulted* Laboratory tests.

When you select Laboratory *Results* data, you may "include" or "exclude" results within specific value ranges. Note, specifing a value range only works for lab values that are <u>numeric</u> (as opposed to "pos," "neg")

NTI-dsDNA AN	TIBODY [Result. ADNA]				
	Any Value	▼	a	nd	×
ancel Add					